





PAGER Version 4

Created: 1 day, 0 hours after earthquake

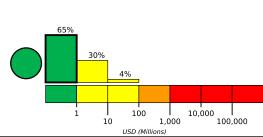
M 5.6, 83 km WSW of Arica, Chile

Origin Time: 2021-12-07 09:39:38 UTC (Tue 04:39:38 local) Location: 18.6378° S 71.0691° W Depth: 31.4 km

Estimated Fatalities 10,000 1,000



Green alert for shaking-related fatalities Estimated Economic Losses and economic losses. There is a low likelihood of casualties and damage.



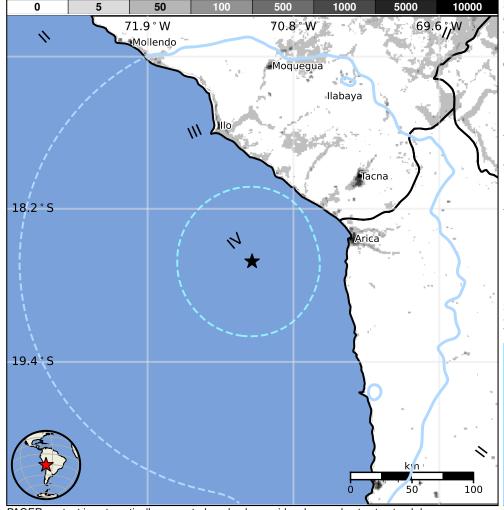
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	1,201k	0	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan



PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty. https://earthquake.usgs.gov/earthquakes/eventpage/us6000g9zp#pager

Structures

Overall, the population in this region resides in structures that are highly vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are mud wall and reinforced/confined masonry construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
2001-07-24	218	6.3	V(36k)	1
2001-12-04	393	5.8	VI(32k)	2
2001-06-23	359	8.4	VIII(179k)	48

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
III	Iquique	227k
Ш	Las Yaras	<1k
Ш	Arica	186k
Ш	Sama Grande	<1k
Ш	Pueblo Nuevo	<1k
Ш	Pocollay	<1k
Ш	Tacna	280k
Ш	llo	53k
Ш	llabaya	9k
Ш	Moquegua	55k
II	Mollendo	29k

bold cities appear on map.

(k = x1000)

Event ID: us6000g9zp